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WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF AERONAUTICS

AUDIOVISUAL LOAN PROGRAM

Welcome to the Wisconsin Department of Transportation's Bureau of Aeronautics audiovisual loan program. Videos are available for loan to the public through this program. We encourage you to use the available items in all of your aviation-related endeavors.

Each of our videos has been sorted into specific categories which are listed in the Table of Contents. The information listed for each video includes: Title, producer, length, production year, video number, and a brief description.

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Aeromedical Factors

Title & Description *Video #*

ALL IT TAKES IS ONCE 54
Federal Aviation Administration 25:00 1985
Even the best of pilots can be distracted in flight by preoccupation with personal problems. Mental distraction is a serious flight hazard. Five psychological problems frequently encountered by general aviation pilots are dramatically presented.

AVIATION STRESS MANAGEMENT 64
Medical Airworthiness Series
Aero Med 35:00 1986
An in-depth analysis of stress and how it affects pilots and others.

BASIC AVIATION PHYSIOLOGY 5
Jeppesen Sanderson 30:00 1990
Describes how the different sensory organs give you input in flight and how to analyze these inputs. Contains
sections on spatial disorientation, the effects of altitude on the human body, and the reduction in your performance caused by alcohol or drugs.

DISORIENTATION 79
Federal Aviation Administration 19:00 1985
It's important for pilots to be aware of the fallibility of their senses and the importance of using instruments. Alerts pilots to in-flight situations that are potentially disorienting and describes how physiological phenomena can influence and distort flying judgment.

EFFECTS OF DRUGS & ALCOHOL ON THE HUMAN BODY 85
Comdata 61:00 1980+
An Aviation Medical Examiner (AME) talks frankly about the effects of drugs and alcohol in a question and answer session.

FIT TO FLY 88
Medical Airworthiness Series
Aero Med 20:00 1986
How to keep your medical certificate, tips on nutrition, exercise and other health habits. What to do if you fail your medical exam.

MEDICAL FACTS FOR PILOTS 112
Federal Aviation Administration 25:00 1980
Provides a look at some of the fundamental human physical and psychological limitations while in flight. Alerts pilots to such aeromedical factors as disorientation, the effects of alcohol, oxygen requirements, and vision.

Rx FOR FLIGHT 125
Federal Aviation Administration 20:00 1985
Alcohol, drugs, hypoxia, disorientation, smoking, and safety equipment all lend themselves to a discussion of the basic aeromedical problems that confront general aviation pilots. Recommended for private pilot training classes and safety seminars.

Agriculture

Title & Description *Video #*

EMERGENCY RESPONSE TO PESTICIDE SPILLS 4
Helicopter Association Int'l 20:05 1999
Geared specifically for the agricultural operator, this video covers, in detail, all recommended procedures to avoid, prevent and contain agricultural pesticide spills. Of primary importance, recommends safety procedures for crashed agricultural aircraft situations.

THE AERIAL APPLICATORS GROWING ROLE 41
National Agricultural Aviation Association 28:30 1990
Aviation plays a key role in American agriculture and food availability worldwide. Aerial application is the most economical way to apply ag chemicals, but how safe is it? Agricultural chemical use and effects are studied as is the application of these chemicals. An excellent introduction to this much maligned industry.

Airports

Title & Description *Video #*

AIRPORT ACTION GROUPS 49
Federal Aviation Administration 23:14 1989
Designed to provide the information necessary to present the importance of an airport action group to your community's civic or business organizations. Bringing the community together in support of your airport is the ultimate goal.

AIRPORT EMERGENCY PLANNING 50
Federal Aviation Administration 10:00 1990+
Every airport should have an emergency plan specific to that airport. A must for any FBO, airport manager, or airport sponsor.

AIRPORT SELF-INSPECTIONS 51
Federal Aviation Administration 45:00 1988
Provides a checklist of inspection items for airport managers in order to maintain a safe facility. Includes tips on facility maintenance, safety areas, runways, lighting, markings and signs.

AIRPORT SIGNS, MARKINGS & PROCEDURES: 185
YOUR GUIDE TO AVOIDING RUNWAY INCURSIONS
King Schools 38:00 2000
Airport signs and markings are grouped by what they mean to you and presented in the way you'll actually see and use them. Especially helpful in understanding markings you don't have at your home airport.

AMERICA'S AIRPORTS: UNITING A NATION 55
Aircraft Owners and Pilots Association 15:14 1990+
If you think the three things airports do for your community are drain the budget, create noise and create a safety hazard, this video is for you. What are the benefits of having a community airport? We'll ask again after you view this video.

Title & Description *Video #*

ASOS/AWOS 61
Aircraft Owners and Pilots Association 12:42 1994
Describes the Automated Weather Observing System (AWOS) and the Automated Surface Observing System (ASOS). Capabilities and limitations of the system are discussed and suggestions for getting the most out of automated observations are presented.

HELIPORTS: GATEWAY TO THE WORLD 2
Helicopter Association Int'l 17:15 1999
Designed to encourage local governments and communities to include helicopters in their transportation planning process and help ensure the availability of suitable helicopter landing facilities in metropolitan areas, this video takes a pro-active stance and merits the success of the Orlando, Florida heliport network.

LOCAL AIRPORTS - ACCESS TO AMERICA 40
Aircraft Owners and Pilots Association 20:00 1998
With today's rapidly expanding need for mobility, general aviation aircraft provide an efficient and safe mode of transportation as well as provide services to the community. These services include agricultural crop spraying, fire fighting, search and rescue, medical transportation, and law enforcement to name a few. Find out why "Local Airports" are your "Access to America".

RISKY BUSINESS 123
Transport Canada 12:27 1986
Aviation, is it a risky business? A number of people in the airline industry respond to that question. Regulations, employee attitudes, customer perceptions, and the roles of the safety officer and CEO are discussed.

124
RUNWAY INCURSIONS, THE TROUBLE AHEAD
Federal Aviation Administration 10:00 1988
A detailed look at runway incursions. Actual accidents are used to dramatize the three types of incursions and the reasons for them.

SNOW & ICE COVERED AIRPORTS 36
Sporty's Pilot Shop 20:00 1996
The pristine beauty of a fresh snowfall or recent ice storm can conceal the challenges awaiting your flight. Richard Collins shares his wisdom and experience for the safe operation of aircraft on and around snow and ice covered airports. You'll learn: how to deal with snow drifts and ice patches; how heavy snow on the ground can affect instrument approaches and much more.

CAUTION: WAKE TURBULENCE 68
Federal Aviation Administration 16:00 1991
Helps familiarize pilots with the phenomenon of wake turbulence when operating in a mixed traffic environment. Both animated and live footage are used to show in-flight testing, actual vortex encounters, and the characteristics of vortices.

WAKE TURBULENCE AVOIDANCE-A PILOT AND AIR TRAFFIC CONTROLLER BRIEFING 146
Federal Aviation Administration 26:00 1995
Produced to improve pilot and air traffic controller wake turbulence knowledge. Offers supplemental information that may be considered for use in a variety of situations. This video is not intended to replace established practices and procedures.

Title & Description *Video #*

IT MAY EVEN SAVE YOUR LIFE 107
Federal Aviation Administration 15:00 1990
Shows the radar services offered by FAA's air traffic control network and describes the computer-based system used at most busy airports and all en route centers. Safety features such as conflict alert, low altitude warning and back-up systems are shown.

JUST MOBILITY FLIGHT ACCESS SYSTEM 108
Advance Electronics 4:45 Late 1990's
Promotional video demonstrating the Just Mobility flight access system. Provides training for how to use the system and information for airport managers looking for a flight access system.

TLS TRANSPONDER LANDING SYSTEM 140
Wisconsin DOT/Bureau of Aeronautics 8:00 1995
The State of Wisconsin, City of Watertown, and Advanced Navigation and Positioning Corporation have formed a partnership to install the worlds first civilian use Transponder Landing System. This video explains why this partnership was formed, how the system works, and displays an actual instrument approach at the Watertown airport utilizing TLS.

AN INTRODUCTION TO THE TRANSPONDER RUNWAY CONTROL SYSTEM 142
Galaxy Scientific Corporation 8:45 1996
Promotional video for airport managers highlighting the Transponder Runway Control System (TRCS). Discusses the problem of runway incursions and the difference between airport surface detection equipment and the TRCS.

Careers

Title & Description *Video #*

AVIONICS: "ARE YOU UP FOR THE CHALLENGE?" 38
AEA Educational Foundation 12:00 1998
Features an overview of avionics and the many career opportunities available in the field including overhaul, maintenance, design, and management.

CAREERS IN AVIATION 67
Aviation Careers Unlimited 20:00 1999
Learn what training is required for these jobs and how you can prepare for these challenging and well paying positions.

CAREERS IN AVIATION - VIRGINIA 184
Virginia Dept. of Aviation 22:00 2000
For someone who is looking for a career that offers a tradition of service, growth, and excitement, the world of aviation beckons. Some positions require a considerable amount of training, while others are available at any age and experience level.

Title & Description *Video #*

CLEARED FOR TAKEOFF 70
Federal Aviation Administration 5:00 1993
Produced for the National Air and Space Museum. Documents a little girl's non-stop flight in an airliner to visit her grandparents in Washington, D.C.. Shows every type of air traffic controller duty involved in getting the plane to its destination.

FULL PERFORMANCE LEVEL 94
Federal Aviation Administration 15:00 1980+
In clean, understandable terms, explains what a Full Performance Level air traffic controller is and how an individual reaches that level within the FAA.

LOOKING UP TO YOUR AVIATION CAREER 109
Federal Aviation Administration 14:00 1990
For every one pilot, there are 1,500 other aviation professionals supporting aviation operations on the ground. There are more than sixty different aviation career specialties in which opportunities are available for those with different aptitudes, skills and educational backgrounds. Shows how careers in aviation present a wide range of opportunity for achievement, challenge, responsibility, and fun.

NORTHWEST AIRLINES WOMEN SPECIALISTS 115
Northwest Airlines 51:00 1989
Ann Styx, Manager of Staffing, Northwest Airlines, covers present needs, projections for future employment and ways education programs can help in developing trained applicants.

PUT WINGS ON YOUR CAREER 121
Federal Aviation Administration 15:00 1990
A career in aircraft maintenance can be rewarding for young men and women who have a flair for mechanics and precision skills. Outlines the basic technical requirements and points interested people in the right direction for more specific career information.

THE SKY'S THE LIMIT- YOUR CAREER IN AVIATION 128
Iowa Office of Aeronautics & Iowa Aviation Business Association 13:00 1996
Discusses how to train for a career in aviation: requirements, where to get training, salary ranges, general knowledge. Features Iowa resources.

TAKE OFF! CAREERS IN AVIATION 134
Fox Valley Technical College (FVTC) 12:00 1996
Explores FVTC training opportunities. Their programs include avionics (aviation electronics), Airframe and Powerplant (aviation mechanics), and flight training up to commercial, multi-engine, and instrument certificates.

TAKE OFF FOR OPPORTUNITIES 58
General Aviation Manufacturer's Association 16:00 1981
Talks about the benefits of and the career opportunities in general aviation (aerial photography, crop dusting, medical transport, business flying, air transport, A & P mechanics, engineering, and avionics).

TECHNICAL CAREERS IN AVIATION 137
Wisconsin DOT 17:00 1991
Discusses alternative careers in aviation from baggage handler to dispatchers. Personal interviews show the vital importance of these careers in interacting with the aviation industry.

Title & Description *Video #*

THESE SPECIAL PEOPLE 139
Federal Aviation Administration 14:00 1987
Explore the work and career opportunities of electronics technicians who work for the FAA. Describes their technical skill, craftsmanship and meticulous attention to detail. Provides a behind-the-scenes look at how they install, operate, and maintain the complex airway facilities network which supports the national aviation system.

TO BE A PILOT 141
Transport Canada 24:10 1981
Join Jeff, a student pilot, as he learns that to be a good pilot is not just a matter of skill, but just as importantly, it is a matter of judgment.

Children

Title & Description *Video #*

AGRICULTURE'S AIR FORCE 43
National Agricultural Aviation Association 11:00 1992
Introduces youth to agriculture's air force and the contributions agricultural pilots make to food production. Explore a day in the life of an agricultural pilot, discover the unique features of agricultural aircraft, learn about the history of cropdusting, and diversity of aerial application today.

THE BASICS OF FLIGHT 175
Aviation Week & Space Technology 20:00 1995
Describes the four forces (lift, drag, thrust, and gravity) that are balanced in level flight and how airplanes and helicopters are used for many purposes. Includes a segment introducing students to the history of flight and airplane technology, and the SR-71 Blackbird, the high flying reconnaissance-turned-research aircraft.

BIRDS, BATS, AND NAVIGATION 177
Aviation Week & Space Technology 20:00 1995
Describes how birds, bats, and other living things that fly navigate and how their bodies are adapted for flying. Discusses how, during flight, our senses can give us false information.

A CHILD'S DREAM TO FLY 159
KIDSWORLD Production Co. (ages 3-8) 30:00 1997
When his best friend Jimmy moves to a new town, Zach dreams of building his own airplane so he can pay him a visit. Come along as Zach's grandpa and big sister help make his dream come true.

CLEARED FOR TAKEOFF 71
Fred Levine Productions 30:00 1994
A family's vacation includes a layover in the busiest airport in the world, O'Hare in Chicago, Illinois. Captain Herb, a real United Airlines pilot, takes kids from the control tower to the maze of baggage handling, from giant jets taking off and landing to a front row seat in the cockpit of an in-flight Boeing 747 jumbo jet.

Title & Description *Video #*

CLEARED TO LAND 186
Westmoreland Productions, Inc. 50:00 1994
A professional production that shows children the sights and sounds of one of the nation's airports. See inside cockpits and control towers.

EXPLORING THE WORLD OF AVIATION WITH AIR BEAR 44
Federal Aviation Administration 15:00 1992
Come along with Air Bear as he gets to see front and behind-the-scenes looks at airport and aircraft.

FUNDAMENTAL LESSONS IN GENERAL HELICOPTER TECHNOLOGY (FLIGHT) 95
Bell Helicopter 20:00 1990
Includes video "The Helicopter" and lesson plans for middle and high school in a three-ring binder. Addresses the history, current, and future uses of the helicopter.

LET'S GO FLY A HELICOPTER 187
Blue Beetle Productions 27:00 1995
An exciting field trip to learn about helicopters and the people who build, maintain, and fly them. Learn how helicopters are used in law enforcement, emergencies, and the military.

THE HUMAN BODY IN FLIGHT 178
Aviation Week & Space Technology 20:00 1995
Describes the effects of flying at high altitudes, loss of oxygen, gravity, and abiotic factors on the human body – the respiratory, circulatory, and nervous systems.

THE PULL OF GRAVITY 176
Aviation Week & Space Technology 20:00 1995
Introduces students to the concept of gravitation and describes how balloons use density differences to overcome

REACH FOR THE STARS 179
Aviation Week & Space Technology 20:00 1996
Visit the Columbia University to find out about the billions of stars in the night sky and how they were formed. Dr. Mendell of NASA discusses the body's reaction to extended space travel mentioning just some of the effects on the bones, cardiovascular system, and muscles.

TO THE MOON 180
Aviation Week & Space Technology 20:00 1996
Explains how we came to understand the true movement of planets and sun in our solar system and how 1957 marked the beginning of the Space Age, when the Soviet satellite Sputnik was successfully launched. Astronaut Pete Conrad talks about his experience of lunar gravity as a moonwalker.

A TRIP THROUGH MILWAUKEE COUNTY'S GENERAL MITCHELL INT'L ARPT 143
Milwaukee County 9:03 1997
Humorous video geared for younger audiences. Takes the viewer through a tour of Wisconsin's largest airport to show that for each pilot there are 90 other jobs created at the airport.

Title & Description *Video #*

WHERE DO PLANES SLEEP? 157
Kids In Motion (ages 2-8) 30:00 1997
This combination of animation, live action and music will settle children calmly down as they fly away on a magical adventure with Mike.

Educational

Title & Description *Video #*

AIR BEAR - AN INTRODUCTION FOR TEACHERS 45
Federal Aviation Administration 8:00 1992
Teachers and administrators talk about how they use Air Bear in class, field trips, fly-ins, etc.

AIRCRAFT FLIGHT LINE SERVICE 46
Aircraft Owners and Pilots Association 23:44 1985
Professional flight line service begins with good training and this video is a great beginning. From giving ground signals to the arriving pilot, to fueling, moving, or towing, all facets of line service are covered.

AVIATION LINE SERVICE TRAINING 62
Phillips Petroleum Co. 8:36 1991
Aircraft service procedures are covered including proper refueling techniques, aircraft handling, and customer service.

AVIATION OIL: WHAT EVERY PILOT NEEDS TO KNOW 169
Aeroshell 45:00 1994
Explains the fundamentals of what oil does inside a piston engine and what steps you can take to increase the life and performance of your aircraft's engine.

BUT...WILL IT FLY? 155
Milwaukee School of Engineering (MSOE) 16:00 1995
Features the 1994-95 Aero Design Team. Students design and construct an ultralight remote control aircraft for international competition, ands discuss what worked and why. Features the aero engineering program at MSOE.

CRM: EXPLORING THE HUMAN ELEMENT 8
Jeppesen Sanderson 30:00 1996
Expand your knowledge of CRM (Crew Resource Management) principles by exploring ideas and techniques used in United's training. Contains interviews of C/L/R (Command-Leadership-Resource) instructors who discuss topics as: Captain's Authority, Crew Climate, Communication, and many more.

CHARTING NEW COURSES 69
Jeppesen Sanderson 10:00 1989
Discusses various ways aviation education can motivate students and be integrated into history, art, literature, social studies, geography, etc.

Title & Description *Video #*

CONTROLLED IMPACT DEMONSTRATION (CID) 73
Federal Aviation Administration 15:00 1984
On December 1, 1984, a remote controlled Boeing 720 took off from Edwards Air Force Base in California. The plane had one mission: to crash onto the desert floor. This video looks at a number of different facets of the test such as anti-misting kerosene, survivability of passengers and the crash worthiness of the airplane.

DREAM FLIGHT - 1992 81
Wausau School District 21:00 1992
The importance of involving young people in the space program is highlighted as the Wausau School District provides students with a NASA shuttle mission experience. For one week, students traveled in a replica space shuttle to the schools in their district to learn and gather information about space exploration and shuttle missions.

THE GRAND TOUR – EXPLORING THE PLANETS 195
Aviation Week & Space Technology 60:00 1990
Look back at what we've learned so far and ahead to mysteries still unanswered. A powerful survey of the major bodies of the solar system including the people, spacecraft, and technology that made their exploration possible.

GUIDELINES FOR INTEGRATING HELICOPTERS INTO EMERGENCY PLANNING 101
Federal Aviation Administration 13:00 1991
Explore the basic elements of emergency planning for helicopter usage. Provides an introduction to the variety of missions that helicopters can perform as well as common misconceptions about helicopter capabilities.

SUCCESS BY DESIGN...INTEGRATING HELICOPTERS INTO EMERGENCY PLANNING 133
Federal Aviation Administration 21:04 1991
Learn how to integrate helicopters into emergency planning. Introduces the audience to planning elements and the various missions helicopters can perform, discusses common misconceptions about their capabilities, and provides examples of where they have been successful.

LIFTOFF TO LEARNING I 59
NASA 120:00 1995
Highlights the Space Shuttle Spacelab Sciences I mission. Discusses the physiological affects of space flight on the human body. Some topics are: All Systems Go!, Assignment: Spacelab!, The Atmosphere Below, From Undersea to Outerspace, Go for EVA, Living in Space, and Newton in Space.

LIFTOFF TO LEARNING II 60
NASA 96:57 1995
Highlighting space shuttle missions, this video studies topics as: Space Basics, Tethered Satellites, Toys in Space II, and Voyage of Endeavor: Then and Now.

ROCKETS FOR SCHOOLS 156
Sheboygan, Wisconsin Schools 5:30 1997
Highlights the Rocket for Schools program in Sheboygan, Wisconsin. Shows the Launching of the Super Loki Rocket and other homemade rockets.

SATS AT OSHKOSH 99 166
NASA 3:45 1999
Gives you a look into the future on Small Aircraft Transportation System (SATS).

Title & Description *Video #*

SKYDIVING AND PARACHUTE OPERATIONS 129
Aviation Safety Program 20:11 1995
Designed to help general aviation pilots and airport managers become more familiar with skydiving and parachute operations. Explores pilot safety concerns as well as pilot and skydiver responsibilities when functioning in close proximity at affected airports.

VERTICAL FLIGHT 194
Aviation Week & Space Technology 60:00 1999
The exciting, definitive story of VTOL aircraft – how they conduct rescue missions, haul passengers in and out of places once considered inaccessible, and became invaluable for jobs ranging from driving cattle to fighting fires. And, most of all, how these incredible flying machines have revolutionized modern warfare.

WHY AIRPLANES CRASH 148
The Nova Series, Public Broadcast System 55:30 1986
Is airline travel as safe as it can be? An in-depth look at crew performance during recent airline accidents. Taped during original Nova broadcast. Discusses cockpit resource management.

WISCONSIN AEROSPACE EDUCATION PROGRAMS 151
Wisconsin Aviation Conference Session 3:30 May, 1987
Details the value of having aviation education programs in schools. The Mosinee School District is used as an example.

Entertainment

Title & Description *Video #*

2000 AIRVENTURE OSHKOSH 160
Experimental Aircraft Association 60:00 2000
Get ready to view the best of EAA AirVenture: the daily air show, warbirds, vintage aircraft, homebuilts, ultralights, the Golden Age and Reno racers, plus all the other sights and sounds that make AirVenture the aviation event of the year!

AN AIR OF ADVENTURE 56
Experimental Aircraft Association 90:00 1986
The sights and sounds of EAA Oshkosh '86. Watch as Italy's "Frecce Tricolori" thrill you with their majestic beauty. Observe the grace with which the Goodyear Blimp moves across the convention site. Homebuilts, antiques, classics and warbirds -- they are all here for you to enjoy.

EAA CLOSE-UP 82
Experimental Aircraft Association 90:00 1988
The complete story of EAA Oshkosh 1988 – the airplanes, people, and excitement of the world's most significant aviation event.

Title & Description *Video #*

EAA OSHKOSH 1990 - GATEWAY TO AVIATION 83
Experimental Aircraft Association 60:00 1990
If it's possible to experience EAA Oshkosh in just one hour, this is it! It features a special 50th anniversary commemoration of the Battle of Britain. Other visiting aircraft included the F-17A Stealth Fighter, the B-1B, a newly restored B-24 and Lockheed Super Constellation. Relive the memories and the excitement of Oshkosh!

EAA OSHKOSH '94 84
Destination: Oshkosh
Experimental Aircraft Association 60:00 1994
From the return of the British Airways' Concorde to the 24th anniversary celebration of our first steps on the moon, this video has it all: the Great Cross-Country Race, a tribute to the Jolly Rogers, Rare Bear, a salute to Apollo an attempt to break the time-to-climb world record, and much more.

AVIATION ODYSSEY- OSHKOSH '96 63
Experimental Aircraft Association 60:00 1996
Video shows exciting scenes from the 1996 EAA Fly-in and Convention. Features homebuilts, aerobatics, innovative styles, Warbirds, and military aircraft. Includes scenes inside the cockpit and interviews with pilots and designers.

EAA'S ULTIMATE FLIGHTS 144
Experimental Aircraft Association 50:00 1996
Features sport aviation from wing walking to water skiing and everything in between. A portion of the video focuses on the P-51 Mustang's history and why it is popular with sport aviators. Includes interviews with pilots, performers, and designers. Most scenes filmed at EAA.

EXPERIENCE THE SPIRIT OF FLIGHT 87
Experimental Aircraft Association 29:00 1990
Experience the spirit of flight during this exclusive tour of the EAA Air Adventure Museum in Oshkosh, Wisconsin. This video will take you inside the Air Adventure Museum for an up-close look at the airplanes and exhibits that make up one of the finest aviation museums in the world.

RUNNING ON EMPTY 6
Masters of Soaring Competition
Jeppesen Sanderson 25:00 1987
This exciting soaring video may be the best ever, with 21 national and world champion sailplane pilots from 9 countries competing over 6 days.

Historical

Title & Description *Video #*

THE AGE OF FLIGHT - KITTY HAWK 11
MPI Home Video 60:00 1990
Before the Wright Brothers flew for the first time at Kitty Hawk in 1903, man struggled to invent a machine that would stay up in the air. See how inventors around the world competed to be first in flight, and how the first engine powered flights came about because of war necessities.

Title & Description *Video #*

DREAMS OF FLIGHT - IN THE BEGINNING... 12
International Video Network 25:00 1995
Travel back through time to the very first days of flight and experience the exhilaration of floating up in the Montgolfiers' hot-air balloon and leaping off a mountaintop aboard an early Lilienthal glider. Lift off with the Wright brothers as they become the first to fly under their own power and control. Join in the fascinating journey above earth alongside the pioneers who proved once and for all that man was meant to fly.

THE HELICOPTER 103
American Helicopter Society/Helicopter Association International 21:00 1989
Cliff Robertson takes you on a 50-year tour of helicopters, how they fly and are put to work. This introduction to rotorcraft closes with a glimpse to the future.

IN CELEBRATION OF FLIGHT 105
Federal Aviation Administration 28:00 1990
The story of the men and women who found adventure in flight, and contributed their special knowledge, skills, dedication and vision to bring the benefits of aviation to all.

HOWARD MOREY: AVIATION PIONEER 113
Wisconsin DOT/Bureau of Aeronautics 21:00 1978
An interview with Howard Morey, one of Wisconsin's aviation pioneers. Mr. Morey gives insights into Wisconsin's rich aviation history, including stories about Charles Lindbergh, early barnstorming, innovations in air technology, and Wisconsin's place in aviation development.

THE SKY IS YOURS 127
Champion Spark Plug Company 17:00 1988
The story of the general aviation industry. Tells about aircraft manufacturers and the various models of each. Some details on aircraft equipment and pilot training are given as well.

WOMEN WITH WINGS 152
Experimental Aircraft Association 33:00 1995
One of the most popular and impressive displays in the EAA Air Adventure Museum is the gigantic video wall dedicated to the life stories of *Women with Wings*. This video contains the complete *Women with Wings* Program: Biographies of eight women who have contributed significantly to the history of aviation.

Informative

Title & Description *Video #*

AERONAUTICS & SPACE REPORT - RETURN TO SPACE 42
National Aeronautics and Space Administration 14:00 1988
Chronicles NASA's efforts since the Challenger accident to improve and update that portion of the space program. Details all the improvements made on the Discovery. Highlights some of the rigorous training the astronauts go through, and the new administration of the space program.

Title & Description *Video #*

AIRSPACE RECLASSIFICATION 52
Federal Aviation Administration 14:30 1992
An introduction to the airspace reclassification. Reviews important features of the airspace system, and explains the six alphabetical classes.

ECONOMIC IMPACT OF AVIATION IN WISCONSIN 86
Wisconsin DOT/Bureau of Aeronautics 15:00 1999
Aviation in Wisconsin provides many "quality of life" services such as medical, law enforcement, agricultural, environmental management, recreation, pilot training, and aviation education in addition to commercial air service and general aviation facilities.

FLIGHT 52 89
Federal Aviation Administration 14:00 1980+
The application of computer technology to air traffic control allows controllers to spend more time making vital flight decisions. Flight 52 explains the basics of a semi-automated air traffic control environment.

GENERAL AVIATION IS AMERICA'S AIRLINE 98
Aircraft Owners and Pilots Association 15:00 1990
Because the airlines serve less than 500 of the nation's 16,000 airports, the general aviation fleet of 245,000 aircraft is a valuable segment of the air transport network. Other segments of general aviation are observed as well.

GENERAL AVIATION - FACT OR FICTION 97
Federal Aviation Administration 14:00 1990+
General aviation operations account for the largest segment of American air commerce. This video describes general aviation's significant contributions to the American economy and its role as a mode of travel serving a multitude of purposes.

GENERAL AVIATION...A NATIONAL RESOURCE 96
General Aviation Manufacturers Assoc. 15:00 1990+
Explains the important role general aviation plays in air transportation. Whether for pleasure, or business, general aviation aircraft transport more people, fly more miles, and has access to more airports around the world than any other form of air transportation.

LEARNING TO FLY 33
Sporty's Pilot Shop 60:00 1999
Discover the fun of flying on weekend trips or family vacations. See how flying can benefit your business or even lead to a career as a professional pilot. Features exciting in-flight footage of single- and multi-engine personal aircraft, Learjets, airliners, F-16's and more. Answers questions about how and where to get started, how little it costs, how quickly and easily a pilot's certificate can be obtained, and how safe flying really is.

THE VITAL ROLE OF AMERICA'S REGIONAL AIRLINES 145
Regional Airlines Association 8:30 1992
Regional airlines play an important role in the transportation industry. This covers their increasing value to their local service areas.

YOUR TURN FOR TAKEOFF 154
National Business Aircraft Association 14:30 1986
A great video for introducing the concept of corporate aviation.

Instructional

Title & Description *Video #*

THE ALCOR ENGINE CARE CLINIC 53
Alcor, Incorporated 33:00 1990
This training video is divided into three parts: mixture control, mixture distribution and in-flight trouble detection analysis. An excellent video for pilots and aircraft maintenance technicians.

OVERWATER FLYING 116
Federal Aviation Administration 25:00 1983
Aimed at pilots planning to fly over water in light aircraft, this video covers emergency survival gear, optical illusions over water, minimal navigation and radio equipment, proper ditching procedures and water survival techniques. Experienced over-water pilots explain the hazards and necessary precautions.

THE VERTICAL DIMENSION 3
Federal Aviation Administration & Helicopter Association Int'l 9:05 1993
This video, aimed at managers, pilots, and maintenance personnel, tells a story of an impatient, unsympathetic executive who demands a fatigued pilot from a well-established helicopter operation, fly an aircraft with potential mechanical problems.

HAND-PROPPING 102
Wisconsin DOT 3:45 1974
The hazards of starting an aircraft by the hand-propping method are caught on video. The owner of a Cessna finds out the hard way.

HANDPROPPING LIGHT AIRCRAFT 10
Larry Bartlett Aviation Videos 21:00 1998
With the proliferation of restored light aircraft and homebuilts that must be started by hand, it is time to reintroduce standardized instruction in this potentially hazardous procedure.

MOUNTAIN FLYING 114
Federal Aviation Administration 23:00 1990
Flying around and over rugged peaks, expert pilots demonstrate that mountain flying presents very special challenges. Fast changing weather and unpredictable air currents are among the hazards that can be countered by sharp pilot skills, knowing the aircraft's capabilities and being familiar with the peculiarities of local terrain and weather.

MOUNTAIN FLYING 37
Sporty's Pilot Shop 30:00 1996
For most pilots, the challenges of operating near mountainous terrain are unfamiliar at best, and without proper instruction, can be potentially risky. This program provides pointers for flying safely in mountainous terrain and examines additional factors such as route planning, canyons density altitude, wind, up and downdrafts, mountain weather plus much more.

FLYING NEIGHBORLY 1
Helicopter Association International 28:00 1999
Illustrates the basics of the Fly Neighborly program and examines the noise impact of blade effect, high speed forward flight, departures, routes and airspeed, approach and landing maneuvers, and en-route procedures.

Title & Description *Video #*

STALLING FOR SAFETY 130
Federal Aviation Administration 18:00 1985
Reviews aerodynamic principles to help alert pilots to the conditions that can trigger stalls and spins. Shows how stalls occur, demonstrates the warning signs of an approaching stall and reviews recovery actions.

STALL/SPIN - CLASSIC FACTS AND MYTHS 131
Aircraft Owners and Pilots Association 22:00 1982
What causes a stall? Why do stalls always precede spins? What to do if your plane stalls or spins, and how to recognize the signs? How to use sight, hearing and feel, as well as instrument indications to avoid stalls and spins?

TAMING STALLS & SPINS 162
King Schools 58:00 1999
Understanding the nature of stalls and spins before you get in the cockpit makes it easier to recognize when you need to take action in actual flight.

VFR CROSS-COUNTRY FLYING 161
King Schools 119:00 1999
From checking the weather ahead, to selecting and using your Sectionals, to identifying landmarks and checkpoints along the way, this video gives you the ultimate checklist for efficient and effective cockpit management. For seasoned and new pilots alike.

VFR TIPS FOR ALL PILOTS 191
Duane Cole 80:00 2000
Presents information on VFR flight without instruments or radios, chart interpretation, cross-country flying over mountain ranges, deserts, forested wilderness and farmlands, forced landings, weather, and life-saving lessons.

VISUALIZED FLIGHT MANEUVERS VIDEO SERIES XI 183
Video Training Aids, Inc. 48:00 1985
Discusses various types of stalls: elementary, takeoff and departure, and approach to landing.

Navigational Aids, Take Offs & Landings

Title & Description *Video #*

AUTOPILOTS 197
Sporty's Pilot Shop 29:00 2000
Proper use of the autopilot not only provides an extra margin of safety in instrument conditions, it can actually improve your flying skills. Examine the finer points of flying with a variety of autopilots and learn basic operating tips for smooth, safe operation.

APPROACH CHARTS 188
Jeppesen Sanderson, Inc. 40:00 1997
Although many types of approaches exist, most incorporate common procedures and chart symbology. Helps you decipher the exact meaning of each symbol as well as the miscellaneous data portrayed on approach charts.

Title & Description *Video #*

DEPARTURES AND ARRIVALS 189
Jeppesen Sanderson, Inc. 40:00 2000
Presents the unique characteristics of departure procedures and standard terminal arrival routes. Provides a thorough understanding of how they are portrayed on instrument charts.

ENROUTE CHARTS 190
Jeppesen Sanderson, Inc. 40:00 1997
Since so much information is available for navigation during this phase of flying, you must be able to quickly and efficiently interpret every item shown on enroute charts. This video will increase your knowledge as well as usefulness of these charts by thoroughly explaining all enroute data.

GPS EN ROUTE 15
Sporty's Pilot Shop 31:00 1995
Most pilots use their GPS as an "airport finder". This video takes you through what you can accomplish with GPS when en route, in an emergency, for VFR navigation, IFR information, etc. - even if it is not IFR approved.

GPS: NEXT GENERATION NAVIGATION 99
Jeppesen 45:00 1995
Explore the wide ranging application of GPS in both the VFR and IFR environments. Be introduced to the unique characteristics of GPS charts and the procedures for flying phase II, III, and Stand Alone GPS approaches.

LOST & CROSSED 158
AOPA Air Safety Foundation 33:00 1999
Explores the pitfalls of too much reliance on GPS and offers sensible tips to help maintain (and re-establish) situational awareness without it.

SATELLITE NAVIGATION PROGRAM 126
Federal Aviation Administration 10:15 1991
The Global Positioning System (GPS) is compared to other navigation systems currently used worldwide.

GPS APPROACHES 31
Sporty's Pilot Shop 13:00 1997
Ride along as we guide you step-by-step through the complexities of the GPS approach. See what the system can and cannot do and find out what to practice before attempting the real thing.

ILS APPROACHES 30
Sporty's Pilot Shop 31:00 1999
Richard Collins points out factors that affect ILS approaches such as headwinds, tailwinds, visibility, on-board equipment, flying technique and more. Provides valuable tips on executing flawless ILS approaches every time.

NON-PRECISION APPROACHES 25
Sporty's Pilot Shop 27:00 1999
Managing the risks on non-precision approaches is, for the most part, simply a matter of planning ahead and being aware of any special requirements on the approach. Richard Collins discusses the subtle nuances of non-precision approaches that can be easily missed if the charts are not interpreted correctly.

Title & Description *Video #*

CLIMB & CRUISE 27
Sporty's Pilot Shop 23:00 1994
This video starts at 1000' AGL after takeoff and continues through the entire en route phase of flight. Covering both VFR and IFR flying, the techniques in this video will help you manage the en route chores that keep you ahead of the airplane.

IFR FLYING TIPS & TECHNIQUES 193
Aviation Media, Inc. 90:00 1993
Rod Machado covers a wide variety of practical information for safe IFR flying, from improving your instrument scan, to determining visibility at minimums.

IFR WITH CONFIDENCE 164
King Schools 114:00 1999
Learn how to deal with the most difficult IFR conditions and how to avoid the pitfalls for the unsuspecting pilot. Includes helpful hints every pilot can use for that tricky transition back to visual flight references.

IFR STRATEGIES 26
Sporty's Pilot Shop 27:00 1999
Richard Collins illustrates how to develop your own IFR strategies and tactics in order to navigate through the changes in weather and the maze of ATC commands during departures, direct legs, airways, transitions and approaches.

SINGLE PILOT IFR 168
Aircraft Owners and Pilots Association 30:00 1991
Addresses cockpit management techniques a single pilot flying IFR can use to cope more effectively, while lowering stress and workload.

LORAN: A QUICK REFRESHER COURSE 110
Federal Aviation Administration 23:00 1988
LORAN has matured into an effective, low-cost general aviation navigation tool. Want to know the entire LORAN story? This is it.

LORAN-C TRAINING 111
Wisconsin Department of Transportation 107:00 1989
Loran-C operating principles are discussed and put into use.

R-50 LORAN : "THE MOVIE" 122
ARNAV Systems, Inc. 13:00 1991
A brief overview of features incorporated in the ARNAV Systems, Inc. R-50 Loran.

FROM DUSK TO DAWN 7
Practical Knowledge of Night Flying
Jeppesen Sanderson 30:00 1991
Take a look at several aspects of night operations from preflight to landing. Contains many tips which should make your flying between dusk and dawn more enjoyable.

Title & Description *Video #*

NIGHT FLYING 23
Sporty's Pilot Shop 27:00 1995
Nighttime is a rewarding (yet demanding) time to fly, and the record has shown that risk increases dramatically after the sun goes down. This is not because the engine fails, but more likely because the pilot fails to adequately compensate for darkness. Explore the proper techniques of night flying and how to manage the risks, both VFR and IFR.

TCAS II 136
Federal Aviation Administration 4:00 1994
This video on the Traffic Collision Avoidance System (TCAS) takes you inside a simulator cockpit to explain how this on-board safety device can help pilots avoid mid-air collisions.

DEPARTING 22
Sporty's Pilot Shop 21:00 1994
Learn the many factors contributing to a successful departure (and how to manage each), why rotation speed in your airplane's POH is best used as a general guideline and much more!

DESCENT & LANDING 32
Sporty's Pilot Shop 25:00 1994
Examines both VFR and IFR arrival procedures and provides hints to help make this critical phase of flight go smoothly. Discover how to fly every approach like an ILS and receive tips on how to be ready for that rare missed approach in IMC.

SOME THOUGHTS ON TAKEOFFS AND LANDINGS 135
Federal Aviation Administration 20:00 1987
Addresses some of the problems encountered during landing and takeoff. Specific areas include proper planning, use of control and power, flap usage, wind effects, flap and gear retractions, airspeed and glide-path control, roundout and touchdown, go-around procedures, braking effectiveness, and wheel-barrowing and ballooning on landings.

Pilots

Title & Description *Video #*

AIR TRAFFIC CONTROL "OPERATION RAINCHECK" 192
Sporty's Pilot Shop Tape 1 – 59:00 Tape 2 – 66:00 1994
Discover the world of controllers: how they're hired and trained, the equipment with which they work and the procedures they follow. See how a pilot can use the system more effectively to make your flights more efficient and pleasant. An excellent training tool for pilots who want to increase their proficiency at working within the ATC system. **When ordering these videos, please specify Tape 1, Tape 2, or both.**

AIRCRAFT SURFACE MOVEMENT 48
Federal Aviation Administration 25:15 1993
For safe and efficient movement on the ground, pilots need to know the meaning of airport markings, lighting systems, signs, airport diagrams and radio communications and phraseology. All these areas are covered in detail.

Title & Description *Video #*

BASIC RADIO PROCEDURES 66
Federal Aviation Administration 30:00 1980
General radio communication procedures are demonstrated by using three pilots demonstrating good radio calls, common mistakes, and glaring procedural errors. A good background understanding for why and what radio calls should be made.

CONTROLLED FLIGHT INTO TERRAIN 72
Flight Safety Foundation 33:00 1995
Controlled flight into terrain, or CFIT, occurs when an aircraft flies into terrain or water with no prior awareness on the part of the crew of their impending disaster. It has become the number one threat to the safety of passengers and crew aboard today's corporate, regional, and large transport carriers. This video analyzes 3 actual CFIT cases, and offers techniques for pilots to help reduce their CFIT risk.

COPING WITH THE UNEXPECTED 74
Airmanship, Inc. 54:00 1985
Tony Kelly from Flight Concepts, guides us through the mental process for coping with unexpected emergencies. Emphasis is placed on thorough knowledge of emergency procedures and systems of the aircraft.

DEFENSIVE FLYING 76
Rod Machado 105:00 1990
Watch with over 300 pilots in this live, entertaining and educational video presentation, as Rod Machado discusses how pilots can learn to fly defensively. While laughing along with the audience, this presentation will help you take a new look at flying safely.

DISPENSER OVERVIEW/TRAINING 80
Cornerstone Fuels 9:57 Mid 1990's
Describes the Cornerstone Fuels self serve fuel dispenser and includes training on the proper procedures for self fueling.

EMERGENCIES 29
Sporty's Pilot Shop 23:00 1995
Addresses the best possible strategies to deal with an in-flight emergency - vacuum and electrical problems, engine failures, smoke in the cockpit and more. Learn what the emergency checklists don't tell you, how to be prepared for surprises, and what to do to prevent an emergency.

EMERGENCIES – VOLUME I 163
King Schools 64:00 1999
Prepares you to deal quickly and decisively with the most feared emergencies – engine failure, fires, stalls and spins, and getting lost – and emergency procedures common to all.

FLIGHT REVIEW 13
Sporty's Pilot Shop 24:00 1995
The FARs state that a pilot must complete a flight review at least every two years, and that it must consist of an hour of ground and an hour of flight instruction. This video examines flight reviews and looks at ways to make them more valuable.

Title & Description *Video #*

FUEL MANAGEMENT 93
Aircraft Owners and Pilots Association 25:00 1980+
Addresses fuel management from the simplest system to the most complex and provides information that can be used to the pilot's advantage before, during, and after flight.

INSTRUMENT PROFICIENCY CHECK 35
Sporty's Pilot Shop 27:00 2000
Richard Collins provides a great review of basic currency rules, fuel, alternate minimums, etc., discusses many common pitfalls of IFR flight, and demonstrates how to avoid them by getting the IPC you deserve. Includes a critique of your current knowledge and skills and leaves you confident in your ability to handle the aircraft in IMC.

MAKING YOUR OWN RULES 165
King Schools 69:00 2000
Helps you develop your own personal minimums checklist covering topics such as the pilot, the aircraft, the environment, and external pressures.

COLLISION AVOIDANCE 9
Aircraft Owners and Pilots Association 42:00 2000
Learn how to avoid a midair collision by knowing the limitations of the human eye, understanding collision avoidance methods, and effective scanning techniques as you explore the factors and situations that lead to midair collisions.

PEACE KEEPERS AND PRIVATE PILOTS 117
Minnesota DOT 22:00 Mid 1990's
Highlights the use of Military Operations Areas (MOA's) by the Minnesota Air National Guard, and the Army Reserves. Types of aircraft are discussed along with actions the general aviation pilots should think of when planning and executing a flight through a MOA.

PERSONAL MINIMUMS 16
Sporty's Pilot Shop 30:00 1998
Not every pilot is comfortable flying VFR with only a mile visibility or shooting an ILS to 200 feet. Although the regulations certainly allow these types of operations, the most important standards to adhere to are the ones YOU set. Richard Collins explores and discusses how to develop your own set of rules to make every flight safer and more enjoyable.

PILOT DECISION-MAKING 118
Federal Aviation Administration 10:00 1987
Addresses both the internal and external stresses affecting good pilot judgment and the "decision-making chain". Pilot physiological profiles are discussed tagging those profiles to certain pilot actions.

THE PILOT'S PERSPECTIVE 119
Iowa DOT 9:54 1987
A brief look at flight from the pilot's vantage point. A complete flight is viewed, including taxi, takeoff, landing, and a night flight. Explanation of VFR and flying by instruments.

Title & Description *Video #*

PREFLIGHT TIPS 20
Sporty's Pilot Shop 24:00 1994
Flying is more challenging than most pilots' preflight inspections would indicate. The point is not to complete a checklist, but to thoroughly examine the three main areas of concern before each flight - the pilot, the plane, and the plan for the flight. Along the way, you'll pick up valuable tips, such as how to plan for an inaccurate winds aloft forecast.

START UP 132
Federal Aviation Administration 17:00 1987
Reminds pilots what to look for, what to check out, and what to do before they start their planes in the spring after a long winter layoff.

Planes

Title & Description *Video #*

AIRCRAFT PNEUMATIC SYSTEMS 47
Airborne Air and Fuel Products
28:15 1990
A review of the development of pneumatic systems in aircraft. From the original air flow system utilizing venturies to wet pump systems and finally to the current dry pump systems.

DE-ICING SYSTEMS - CARE AND MAINTENANCE 77
B. F. Goodrich 17:30 1989
Enhances knowledge of the maintenance/inspection required for maximum performance from de-icing systems.

DENSITY ALTITUDE 78
Federal Aviation Administration 29:00 1990
A young couple on a vacation flight learns the hard way about the effects of high altitude and temperature on light aircraft.

DISCOVER GLIDERS! 181
Niche Aviation Videos 25:00 1997
This video is your window to the extraordinary world of motorless flight and puts you in the pilot's seat for a Discovery Flight. Learn about the challenges and rewards of being a glider pilot.

FLYING FLOATS 90
Federal Aviation Administration 19:00 1980+
Float planes combine the beauty of flying and the fun of boating, but they require skillful handling.

HIGH PERFORMANCE SINGLE ENGINE 24
Sporty's Pilot Shop 27:00 1995
Learn how to handle the additional duties and distractions that come with a complex aircraft. Master the techniques and procedures which will help ensure safety when flying in high performance, single-engine aircraft.

Title & Description *Video #*

MULTI-ENGINE 18
Sporty's Pilot Shop 29:00 1996
Looks at ways to manage the risks inherent to flying a twin. A big part of it is in understanding what the airplane will and will not do after the failure of one engine. It's all here, whether you currently operate a multi-engine airplane, are just getting your multi-engine rating or just want to know more about what's involved in flying a light twin.

THE PITOT-STATIC TRAINING 120
Federal Aviation Administration 25:00 1990
Pitot-static system and component testing are covered in detail. Explores three main areas: principles of the pitot-static system, using the Barfield test set, and techniques for instrument testing.

TURBOCHARGERS & FLIGHT LEVEL FLYING 17
Sporty's Pilot Shop 33:00 1995
Additional power means altitudes of FL-180 and above are suddenly available. Examines the mechanics of the turbocharger system as well as the engine management considerations that follow. Also covers basic operating tips, weather factors, high altitude flight planning and much more.

Weather

Title & Description *Video #*

AVIATION WEATHER – AN INTRODUCTION 196
Sporty's Pilot Shop 53:00 1993
In spite of obtaining an accurate briefing from Flight Service or via computer, forecasts can and do go sour, occasionally. Only the weather wise pilot can stay ahead of conditions that are rapidly changing for the worse.

BASIC AVIATION WEATHER - A BACK-TO-BASICS PRESENTATION 65
Aircraft Owners and Pilots Association 23:00 1986
Explanation of all kinds of weather phenomena including: fronts; squall lines; wind patterns; land-sea breezes; seasonal changes and their causes; cloud formation; precipitation and what causes it; and four weather factors (temperature, moisture, lifting, and stability) and how they interact to cause weather. Tips for pilots on how to recognize these factors and use them to their advantage.

THE DAY ALL HELL BROKE LOOSE 75
Federal Aviation Administration
National Center for Atmospheric Research 20:00 1989
Join five United Airlines flight crews as they approach Denver's Stapleton Airport. An operational test of MIT/Lincoln Laboratory's research project on microbursts and the results proved invaluable to the approaching flight crews. Time lapse footage of the microburst will allow you to see what the flights encountered.

FALL WEATHER FLYING 173
Sporty's Pilot Shop Tape 1 – 50:00 Tape 2 – 45:00 1992
These videos fly you through seasonal (fall) weather variations, exploring in depth actual flights and their relationship to reported weather, the weather synopsis, and what was actually experienced.
When ordering these videos, please specify Tape 1, Tape 2, or both.

Title & Description *Video #*

FLYING THE WEATHER 92
Weather to Fly for Safety
Airmanship, Inc. 33:00 1985
Weather considerations while planning a cross country flight, weather interpretation en route and using weather to your advantage.

FRONTAL WEATHER 34
Sporty's Pilot Shop 28:00 1996
Examines the practical aspects of safely operating in and around frontal weather. Focuses on the real-world characteristics of fronts to provide a complete understanding of the conditions likely to be encountered. Greatly expands on the fundamental weather information you received when first obtaining your pilot certificate.

GO/NO-GO WEATHER DECISIONS 167
Aircraft Owners and Pilots Association 39:00 1990
Gives the pilot the ability to visualize the weather along the route and enhances decision-making skills with special emphasis on pilot judgment.

GTE DUATS THE FASTEST WAY INTO THE SKY 100
GTE\Federal Aviation Administration 12:06 1991
Explains the direct users access terminal (DUATS) system, a pilot service for self weather briefings and takes you through the fast and simple steps to obtain a thorough weather briefing.

ICING 19
Sporty's Pilot Shop 27:00 1998
Explains weather phenomena likely to produce ice and how to avoid those areas through careful preflight planning and by correctly interpreting icing forecasts and reports. Examines the "go/no go" decision, the use of anti- and de-icing equipment or (if all else fails) how to deal with a plane-load of ice.

ICING FOR REGIONAL AND CORPORATE PILOTS 39
NASA Glenn Research Center 38:00 1998
The purpose of this video is to: review fundamentals of aircraft icing; assess hazardous icing conditions; understand effects of icing on aircraft stability and control; and Exit icing encounters.

LOWS 21
Sporty's Pilot Shop 23:00 1997
Richard Collins covers all elements associated with lows, including snow, freezing rain, sleet and thundershowers. Hurricanes, thunderstorms, heavy precipitation, reduced visibility and low ceilings are all weather conditions common to lows, and we need to know how to deal with them.

INTRODUCTION TO METAR/TAF 106
Aircraft Owners & Pilot Association/Federal Aviation Administration 13:00 1995
Introduces pilots to the new aviation weather formats. The new terminal forecast (TAF) and surface observation (METAR) formats codes are discussed in detail.

Title & Description *Video #*

SPRING WEATHER FLYING 171
Sporty's Pilot Shop Tape 1 – 48:00 Tape 2 – 45:00 1993
These videos fly you through the weather (springtime storms when tornado watches are out, fog, etc.), exploring in depth actual flights and their relationship to reported weather, the weather synopsis, and what was actually experienced. **When ordering these videos, please specify Tape 1, Tape 2, or both.**

SUMMER WEATHER FLYING 172
Sporty's Pilot Shop Tape 1 – 60:00 Tape 2 – 56:00 1993
These videos fly you through seasonal (summer) weather (thunderstorms, fronts, etc.), exploring in depth actual flights and their relationship to reported weather, the weather synopsis, and what was actually experienced. **When ordering these videos, please specify Tape 1, Tape 2, or both.**

TAILPLANE ICING 170
NASA 25:00 2000
An in-depth look at tail icing. Presents a physical description of the problem along with warning signs and suggested recovery procedures.

THUNDERSTORMS 28
Sporty's Pilot Shop 24:00 1995
Thunderstorms and their associated weather present a unique challenge to flight. Richard Collins takes you on several flights to demonstrate convective weather and to investigate available aids and weather advisories.

TURBULENCE 14
Sporty's Pilot Shop 32:00 1997
Richard Collins explains the conditions and weather phenomena likely to produce turbulence and how to "read" clouds for clues. Covers the effects of turbulence on aircraft structural limits, maneuvering speed, proper pilot technique during turbulence and much more.

WEATHER DECISION MAKING 104
Aircraft Owners & Pilots Association 55:00 1999
Discusses the importance of IFR proficiency and working within the ATC system to safely deal with thunderstorms and other challenging weather. Addresses the limitations of ATC radar and how to get the most useful information from others.

WEATHER FLIGHT PLANNING AND THE PILOT 147
Aircraft Owners and Pilots Association 46:00 1990
Introduces sources of preflight weather information and parts of a good weather briefing. Effective, efficient use of aviation weather services is demonstrated. Common pilot errors in obtaining and recording weather data are identified.

TEN KNOTS FOR MOM AND THE KIDS 138
National Center for Atmospheric Research 12:00 1995
Discusses the inherent dangers of windshear, causes of windshear, avoidance strategies, and the Low Level Windshear Alert System (LLWAS). The use of Terminal Doppler Weather Radar for identification of cell location, intensity, and movement are also covered.

Title & Description *Video #*

A WIND SHEAR AVOIDED 149
Federal Aviation Administration 21:00 1990
Explains windshear and microbursts and how commercial pilots should react when they encounter microburst activity. Windshear detection devices at airports are also explained.

SOME THOUGHTS ON WINTER FLYING 150
Federal Aviation Administration 21:00 1990
Alaskan bush pilots and air taxi operators share their expertise on hazards and safety precautions for cold weather flying: winter preflighting, icing, ELT's, ski flying, survival gear, and the "whiteout" condition.

WINTER WEATHER FLYING 174
Sporty's Pilot Shop Tape 1 – 51:00 Tape 2 – 49:00 1992
These videos fly you through the winter weather (snowstorms, fronts, etc.), exploring in depth actual flights and their relationship to reported weather, the weather synopsis, and what was actually experienced. **When ordering these videos, please specify Tape 1, Tape 2, or both.**

Youth Organizations

Title & Description *Video #*

AVIATION EXPLORING AND YOU 57
Sporty's Academy, Inc. 8:22 1995
Introduces the viewer to the Aviation Explorers Organization. Discusses the benefits of Aviation Explorers and the Boy Scouts of America.

YOUNG ASTRONAUTS: A NEW DECADE OF DISCOVERY 153
Young Astronaut Council 9:35 1987
Describes the Young Astronaut Program which was initiated by former President Reagan to motivate students to study math and science. Shows how the program works in schools, and discusses the program's curriculum and how to become involved.